Algebra 1

Chapter 11 Review

Rational expressions and equations

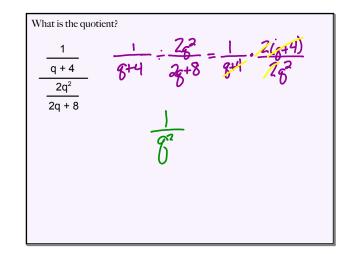
What is the product?

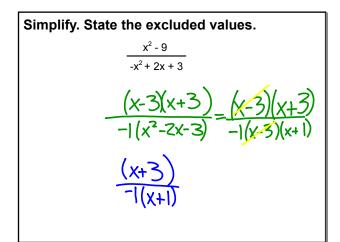
$$\frac{3x + 4}{3x - 9} \cdot \frac{(x^{2} + 5x - 24)}{1}$$

$$\frac{3x + 4}{3(x - 5)} \cdot \frac{(x - 3)(x + 8)}{1}$$
State ordered
State ordered
(3x + 4)(x + 8)
3(x - 5) - (x - 3)(x + 8) - (x - 3)(x - 3)(x - 3) - (x - 3)(x - 3) - (x - 3)(x - 3)(x - 3) - (x - 3)(x - 3)(x - 3) - (x - 3)(x -

The length of a rectangle is x - 2. Its area is 2x - 4. What is the simplified expression for the width? $A = \pounds \cdot W$

$$\frac{2x-4}{(x-2)} = \frac{(\lambda-2)W}{(x-2)}$$
$$W = \frac{2(x-2)}{x-2} \qquad W = 2$$





Your friend runs for
$$(x^2 - 225)$$
 seconds at a rate of
meters per second. How far does your friend run?
 $(x^2 - 225) \cdot \frac{1}{2x - 30}$
 $(x - 45)(x + 15) \cdot \frac{1}{2(x - 45)}$
 $\frac{1}{2(x - 45)}$

What is the solution?

$$\frac{x-3}{x+1} \frac{1}{x+1} = \frac{1}{x+1}$$

$$|= x-3$$

$$\chi = 4$$

You can make one batch of cookie dough in an hour and your brother can make a batch in 42 minutes. How much time does it take you to make a batch of cookie dough together?

 $2520\left(\frac{X}{60} + \frac{X}{42} = 1\right)$ $\frac{2520x}{40} + \frac{2520x}{42} = 2520$ 42x + 60x = 2520102x = 2520y=24.7 min

<u>Ch 11 Review Homework:</u> Page 719 #3, 4, 8-11 all, 14, 15, 19, 20

Quiz MONDAY